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(71) Applicant (for all designated States except US): **GEORGIA TECH RESEARCH CORPORATION** [US/US];  
505 10th Street, N.W., Atlanta, GA 30332 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **LOEFFLER, Frank** [US/US]; 311 Ferst Drive, Room 3228, Georgia Institute of Technology, Atlanta, GA 30332 (US).

(74) Agents: **FEHLNER, Paul, F.** et al.; Darby & Darby P.C., P.O. Box 5257, New York, NY 10150-5257 (US).

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(54) Title: **DEHALOCOCCOIDES ISOLATE FOR BIOREMEDIATION**

(57) Abstract: A bacterium, designated BAV 1 belonging to the Pinellas group within the *Dehalococcoides* cluster has been discovered. BAV 1 is able to completely metabolize chloroethenes to non-toxic products. The isolate is able to grow with dichloroethenes and vinyl chloride (VC) as electron acceptors, reductively dechlorinating dichloroethenes and VC to ethene and inorganic chloride under anaerobic conditions. The BAV1 isolate is useful for bioremediation approaches for cleaning contaminated subsurface environments and restoring drinking water reservoirs.

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